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Reviewer: Durreshwar Anjum

Timestamp: Wed Sep 12 11:55:09 EDT 2007

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Application No: 10573969 Version No: 1.0

Input Set:

Output Set:

Started: 2007-08-31 12:28:02.022

Finished: 2007-08-31 12:28:02.378

Elapsed: 0 hr(s) 0 min(s) 0 sec(s) 356 ms

Total Warnings: 0

Total Errors: 0

No. of SeqIDs Defined: 7

Actual SeqID Count: 7

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| Asn Ser Lys Glu Val Leu Ser Leu Leu Gln Glu Lys Asn Pro Ala Phe | |
| 85 90 95 | |
| aag ccg gtt ctt gca att atc cag gca ggt gac gac aac ttg atg cag | 336 |
| Lys Pro Val Leu Ala Ile Ile Gln Ala Gly Asp Asp Asn Leu Met Gln | |
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| gaa atc aac cag aat ttg gct gag gag gct ggt ctg aac atc act cac | 384 |
| Glu Ile Asn Gln Asn Leu Ala Glu Glu Ala Gly Leu Asn Ile Thr His | |
| 115 120 125 | |
| att tgc ctc cct cca gat agc agt gaa gcc gag att ata gat gaa atc | 432 |
| Ile Cys Leu Pro Pro Asp Ser Ser Glu Ala Glu Ile Ile Asp Glu Ile | |
| 130 135 140 | |
| tta aag atc aat gaa gat acc aga gta cat ggc ctt gcc ctt cag atc | 480 |
| Leu Lys Ile Asn Glu Asp Thr Arg Val His Gly Leu Ala Leu Gln Ile | |
| 145 150 155 160 | |
| tct gag aac ttg ttt agc aac aaa gtc ctc aat gcc ttg aaa cca gaa | 528 |
| Ser Glu Asn Leu Phe Ser Asn Lys Val Leu Asn Ala Leu Lys Pro Glu | |
| 165 170 175 | |
| aaa gat gtg gat gga gta aca gac ata aac ctg ggg aag ctg gtg cga | 576 |
| Lys Asp Val Asp Gly Val Thr Asp Ile Asn Leu Gly Lys Leu Val Arg | |
| 180 185 190 | |
| ggg gat gcc cat gaa tgt ttt gtt tca cct gtt gcc aaa gct gta att | 624 |
| Gly Asp Ala His Glu Cys Phe Val Ser Pro Val Ala Lys Ala Val Ile | |
| 195 200 205 | |
| gaa ctt ctt gaa aaa tca ggt gtc aac cta gat gga aag aag att ttg | 672 |
| Glu Leu Leu Glu Lys Ser Gly Val Asn Leu Asp Gly Lys Lys Ile Leu | |
| 210 215 220 | |
| gta gtg ggg gcc cat ggg tct ttg gaa gct gct cta caa tgc ctg ttc | 720 |
| Val Val Gly Ala His Gly Ser Leu Glu Ala Ala Leu Gln Cys Leu Phe | |
| 225 230 235 240 | |
| cag aga aaa ggg tcc atg aca atg agc atc cag tgg aaa aca cgc cag | 768 |
| Gln Arg Lys Gly Ser Met Thr Met Ser Ile Gln Trp Lys Thr Arg Gln | |
| 245 250 255 | |
| ctt caa agc aag ctt cac gag gct gac att gtg gtc cta ggc tca cct | 816 |
| Leu Gln Ser Lys Leu His Glu Ala Asp Ile Val Val Leu Gly Ser Pro | |
| 260 265 270 | |
| aag cca gaa gag att ccc ctt act tgg ata caa cca gga act act gtt | 864 |
| Lys Pro Glu Glu Ile Pro Leu Thr Trp Ile Gln Pro Gly Thr Thr Val | |
| 275 280 285 | |
| ctc aac tgc tcc cat gac ttc ctg tca ggg aag gtt ggg tgt ggc tct | 912 |
| Leu Asn Cys Ser His Asp Phe Leu Ser Gly Lys Val Gly Cys Gly Ser | |
| 290 295 300 | |
| cca aga ata cat ttt ggt gga ctc att gag gaa gat gat gtg att ctc | 960 |
| Pro Arg Ile His Phe Gly Gly Leu Ile Glu Glu Asp Asp Val Ile Leu | |

| 305 | 310 | 315 | 320 | |
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| Trp Leu Arg Glu Gln Gln His Arg Arg Trp Arg Leu His Cys Leu Lys | | | | |
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| ctt cag cct ctc tcc cct gtg cca agt gac att gag att tca aga gga | | | | 1104 |
| Leu Gln Pro Leu Ser Pro Val Pro Ser Asp Ile Glu Ile Ser Arg Gly | | | | |
| 355 | | 360 | 365 | |
| caa act cca aaa gct gtg gat gtc ctt gcc aag gag att gga ttg ctt | | | | 1152 |
| Gln Thr Pro Lys Ala Val Asp Val Leu Ala Lys Glu Ile Gly Leu Leu | | | | |
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| gca gat gaa att gaa atc tat ggc aaa agc aaa gcc aaa gta cgt ttg | | | | 1200 |
| Ala Asp Glu Ile Glu Ile Tyr Gly Lys Ser Lys Ala Lys Val Arg Leu | | | | |
| 385 | | 390 | 395 | 400 |
| tcc gtg cta gaa agg tta aag gat caa gca gat gga aaa tac gtc tta | | | | 1248 |
| Ser Val Leu Glu Arg Leu Lys Asp Gln Ala Asp Gly Lys Tyr Val Leu | | | | |
| 405 | | 410 | 415 | |
| gtt gct ggg atc aca ccc acc cct ctt gga gaa ggg aag agc aca gtc | | | | 1296 |
| Val Ala Gly Ile Thr Pro Thr Pro Leu Gly Glu Gly Lys Ser Thr Val | | | | |
| 420 | | 425 | 430 | |
| acc atc ggg ctt gtg cag gct ctg acc gca cac ctg aat gtc aac tcc | | | | 1344 |
| Thr Ile Gly Leu Val Gln Ala Leu Thr Ala His Leu Asn Val Asn Ser | | | | |
| 435 | | 440 | 445 | |
| ttt gcc tgc ttg agg cag cct tcc caa gga ccg acg ttt gga gtg aaa | | | | 1392 |
| Phe Ala Cys Leu Arg Gln Pro Ser Gln Gly Pro Thr Phe Gly Val Lys | | | | |
| 450 | | 455 | 460 | |
| gga gga gcc gcg ggt ggt gga tat gcc cag gtc atc ccc atg gag gag | | | | 1440 |
| Gly Gly Ala Ala Gly Gly Gly Tyr Ala Gln Val Ile Pro Met Glu Glu | | | | |
| 465 | | 470 | 475 | 480 |
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| Phe Asn Leu His Leu Thr Gly Asp Ile His Ala Ile Thr Ala Ala Asn | | | | |
| 485 | | 490 | 495 | |
| aac ttg ctg gct gcc gcc atc gac acg agg att ctt cat gaa aac acg | | | | 1536 |
| Asn Leu Leu Ala Ala Ala Ile Asp Thr Arg Ile Leu His Glu Asn Thr | | | | |
| 500 | | 505 | 510 | |
| caa aca gat aag gct ctg tat aat cgg ctg gtt cct tta gtg aat ggt | | | | 1584 |
| Gln Thr Asp Lys Ala Leu Tyr Asn Arg Leu Val Pro Leu Val Asn Gly | | | | |
| 515 | | 520 | 525 | |
| gtc aga gaa ttt tca gaa att cag ctt gct cgg cta aaa aaa ctg gga | | | | 1632 |
| Val Arg Glu Phe Ser Glu Ile Gln Leu Ala Arg Leu Lys Lys Leu Gly | | | | |
| 530 | | 535 | 540 | |

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|---|------|
| ata aat aag act gat ccg agc aca ctg aca gaa gag gaa gtg agt aaa | 1680 |
| Ile Asn Lys Thr Asp Pro Ser Thr Leu Thr Glu Glu Glu Val Ser Lys | |
| 545 550 555 560 | |
| ttt gcc cgt ctc gac atc gac cca tct acc atc acg tgg cag aga gta | 1728 |
| Phe Ala Arg Leu Asp Ile Asp Pro Ser Thr Ile Thr Trp Gln Arg Val | |
| 565 570 575 | |
| ttg gat aca aat gac cga ttt cta cga aaa ata acc atc ggg cag gga | 1776 |
| Leu Asp Thr Asn Asp Arg Phe Leu Arg Lys Ile Thr Ile Gly Gln Gly | |
| 580 585 590 | |
| aac aca gag aag ggc cat tac cgg cag gcg cag ttt gac atc gca gtg | 1824 |
| Asn Thr Glu Lys Gly His Tyr Arg Gln Ala Gln Phe Asp Ile Ala Val | |
| 595 600 605 | |
| gcc agc gag atc atg gcg gtg ctg gcc ctg acg gac agc ctc gca gac | 1872 |
| Ala Ser Glu Ile Met Ala Val Leu Ala Leu Thr Asp Ser Leu Ala Asp | |
| 610 615 620 | |
| atg aag gca cgg ctg gga agg atg gtg gtg gcc agt gac aaa agc ggg | 1920 |
| Met Lys Ala Arg Leu Gly Arg Met Val Val Ala Ser Asp Lys Ser Gly | |
| 625 630 635 640 | |
| cag cct gtg aca gca gat gat ttg ggg gtg aca ggt gct ttg aca gtt | 1968 |
| Gln Pro Val Thr Ala Asp Asp Leu Gly Val Thr Gly Ala Leu Thr Val | |
| 645 650 655 | |
| ttg atg aaa gat gca ata aaa cca aac ctg atg cag acc ctg gaa ggg | 2016 |
| Leu Met Lys Asp Ala Ile Lys Pro Asn Leu Met Gln Thr Leu Glu Gly | |
| 660 665 670 | |
| aca cct gtg ttc gtg cat gcg ggc cct ttt gct aac att gct cac ggc | 2064 |
| Thr Pro Val Phe Val His Ala Gly Pro Phe Ala Asn Ile Ala His Gly | |
| 675 680 685 | |
| aac tct tca gtg ttg gct gat aaa att gcc ctg aaa ctg gtt ggt gaa | 2112 |
| Asn Ser Ser Val Leu Ala Asp Lys Ile Ala Leu Lys Leu Val Gly Glu | |
| 690 695 700 | |
| gaa gga ttt gta gtg acc gaa gct ggc ttt ggt gct gac atc gga atg | 2160 |
| Glu Gly Phe Val Val Thr Glu Ala Gly Phe Gly Ala Asp Ile Gly Met | |
| 705 710 715 720 | |
| gag aaa ttc ttc aac atc aag tgc cga gct tcc ggc ttg gtg ccc aac | 2208 |
| Glu Lys Phe Phe Asn Ile Lys Cys Arg Ala Ser Gly Leu Val Pro Asn | |
| 725 730 735 | |
| gtg gtt gtg tta gtg gca acg gtg cga gct ctg aag atg cat gga ggc | 2256 |
| Val Val Val Leu Val Ala Thr Val Arg Ala Leu Lys Met His Gly Gly | |
| 740 745 750 | |
| ggg cca agt gta acg gct ggt gtt cct ctt aag aaa gaa tat aca gag | 2304 |
| Gly Pro Ser Val Thr Ala Gly Val Pro Leu Lys Lys Glu Tyr Thr Glu | |
| 755 760 765 | |

| | |
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| gag aac atc cag ctg gtg gca gac ggc tgc tgt aac ctc cag aag caa | 2352 |
| Glu Asn Ile Gln Leu Val Ala Asp Gly Cys Cys Asn Leu Gln Lys Gln | |
| 770 775 780 | |
| att cag atc act cag ctc ttt ggg gtt ccc gtt gtg gtg gct ctg aat | 2400 |
| Ile Gln Ile Thr Gln Leu Phe Gly Val Pro Val Val Val Ala Leu Asn | |
| 785 790 795 800 | |
| gtc ttc aag acc gac acc cgc gct gag att gac ttg gtg tgt gag ctt | 2448 |
| Val Phe Lys Thr Asp Thr Arg Ala Glu Ile Asp Leu Val Cys Glu Leu | |
| 805 810 815 | |
| gca aag cgg gct ggt gcc ttt gat gca gtc ccc tgc tat cac tgg tcg | 2496 |
| Ala Lys Arg Ala Gly Ala Phe Asp Ala Val Pro Cys Tyr His Trp Ser | |
| 820 825 830 | |
| gtt ggt gga aaa gga tcg gtg gac ttg gct cgg gct gtg aga gag gct | 2544 |
| Val Gly Gly Lys Gly Ser Val Asp Leu Ala Arg Ala Val Arg Glu Ala | |
| 835 840 845 | |
| gcg agt aaa aga agc cga ttc cag ttc ctg tat gat gtt cag gtt cca | 2592 |
| Ala Ser Lys Arg Ser Arg Phe Gln Phe Leu Tyr Asp Val Gln Val Pro | |
| 850 855 860 | |
| att gtg gac aag ata agg acc att gct cag gct gtc tat gga gcc aaa | 2640 |
| Ile Val Asp Lys Ile Arg Thr Ile Ala Gln Ala Val Tyr Gly Ala Lys | |
| 865 870 875 880 | |
| gat att gaa ctc tct cct gag gca caa gcc aaa ata gat cgt tac act | 2688 |
| Asp Ile Glu Leu Ser Pro Glu Ala Gln Ala Lys Ile Asp Arg Tyr Thr | |
| 885 890 895 | |
| caa cag ggt ttt gga aat ttg ccc atc tgc atg gca aag acc cac ctt | 2736 |
| Gln Gln Gly Phe Gly Asn Leu Pro Ile Cys Met Ala Lys Thr His Leu | |
| 900 905 910 | |
| tct cta tct cac caa cct gac aaa aaa ggt gtg cca agg gac ttc atc | 2784 |
| Ser Leu Ser His Gln Pro Asp Lys Lys Gly Val Pro Arg Asp Phe Ile | |
| 915 920 925 | |
| tta cct atc agt gac gtc cgg gcc agc ata ggc gct ggg ttc att tac | 2832 |
| Leu Pro Ile Ser Asp Val Arg Ala Ser Ile Gly Ala Gly Phe Ile Tyr | |
| 930 935 940 | |
| cct ttg gtc gga acg atg agc acc atg cca gga ctg ccc acc cgg ccc | 2880 |
| Pro Leu Val Gly Thr Met Ser Thr Met Pro Gly Leu Pro Thr Arg Pro | |
| 945 950 955 960 | |
| tgc ttt tat gac ata gat ctt gat acc gaa aca gaa caa gtt aaa ggc | 2928 |
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| ttg ttc | 2934 |
| Leu Phe | |

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Ser Gly Gly Gly Gly Gly Gly Gly Gly Gly Arg Glu Gly Leu Leu Gly
35 40 45

Gln Arg Arg Pro Gln Asp Gly Gln Ala Arg Ser Ser Cys Ser Pro Gly
50 55 60

Gly Arg Thr Pro Ala Ala Arg Asp Ser Ile Val Arg Glu Val Ile Gln
65 70 75 80

Asn Ser Lys Glu Val Leu Ser Leu Leu Gln Glu Lys Asn Pro Ala Phe
85 90 95

Lys Pro Val Leu Ala Ile Ile Gln Ala Gly Asp Asp Asn Leu Met Gln
100 105 110

Glu Ile Asn Gln Asn Leu Ala Glu Glu Ala Gly Leu Asn Ile Thr His
115 120 125

Ile Cys Leu Pro Pro Asp Ser Ser Glu Ala Glu Ile Ile Asp Glu Ile
130 135 140

Leu Lys Ile Asn Glu Asp Thr Arg Val His Gly Leu Ala Leu Gln Ile
145 150 155 160

Ser Glu Asn Leu Phe Ser Asn Lys Val Leu Asn Ala Leu Lys Pro Glu
165 170 175

Lys Asp Val Asp Gly Val Thr Asp Ile Asn Leu Gly Lys Leu Val Arg
180 185 190

Gly Asp Ala His Glu Cys Phe Val Ser Pro Val Ala Lys Ala Val Ile
195 200 205

Glu Leu Leu Glu Lys Ser Gly Val Asn Leu Asp Gly Lys Lys Ile Leu
210 215 220

Val Val Gly Ala His Gly Ser Leu Glu Ala Ala Leu Gln Cys Leu Phe
225 230 235 240

Gln Arg Lys Gly Ser Met Thr Met Ser Ile Gln Trp Lys Thr Arg Gln
245 250 255

Leu Gln Ser Lys Leu His Glu Ala Asp Ile Val Val Leu Gly Ser Pro
260 265 270

Lys Pro Glu Glu Ile Pro Leu Thr Trp Ile Gln Pro Gly Thr Thr Val
275 280 285

Leu Asn Cys Ser His Asp Phe Leu Ser Gly Lys Val Gly Cys Gly Ser
290 295 300

Pro Arg Ile His Phe Gly Gly Leu Ile Glu Glu Asp Asp Val Ile Leu
305 310 315 320

Leu Ala Ala Ala Leu Arg Ile Gln Asn Met Val Ser Ser Gly Arg Arg
325 330 335

Trp Leu Arg Glu Gln Gln His Arg Arg Trp Arg Leu His Cys Leu Lys
340 345 350

Leu Gln Pro Leu Ser Pro Val Pro Ser Asp Ile Glu Ile Ser Arg Gly
355 360 365

Gln Thr Pro Lys Ala Val Asp Val Leu Ala Lys Glu Ile Gly Leu Leu
370 375 380

Ala Asp Glu Ile Glu Ile Tyr G